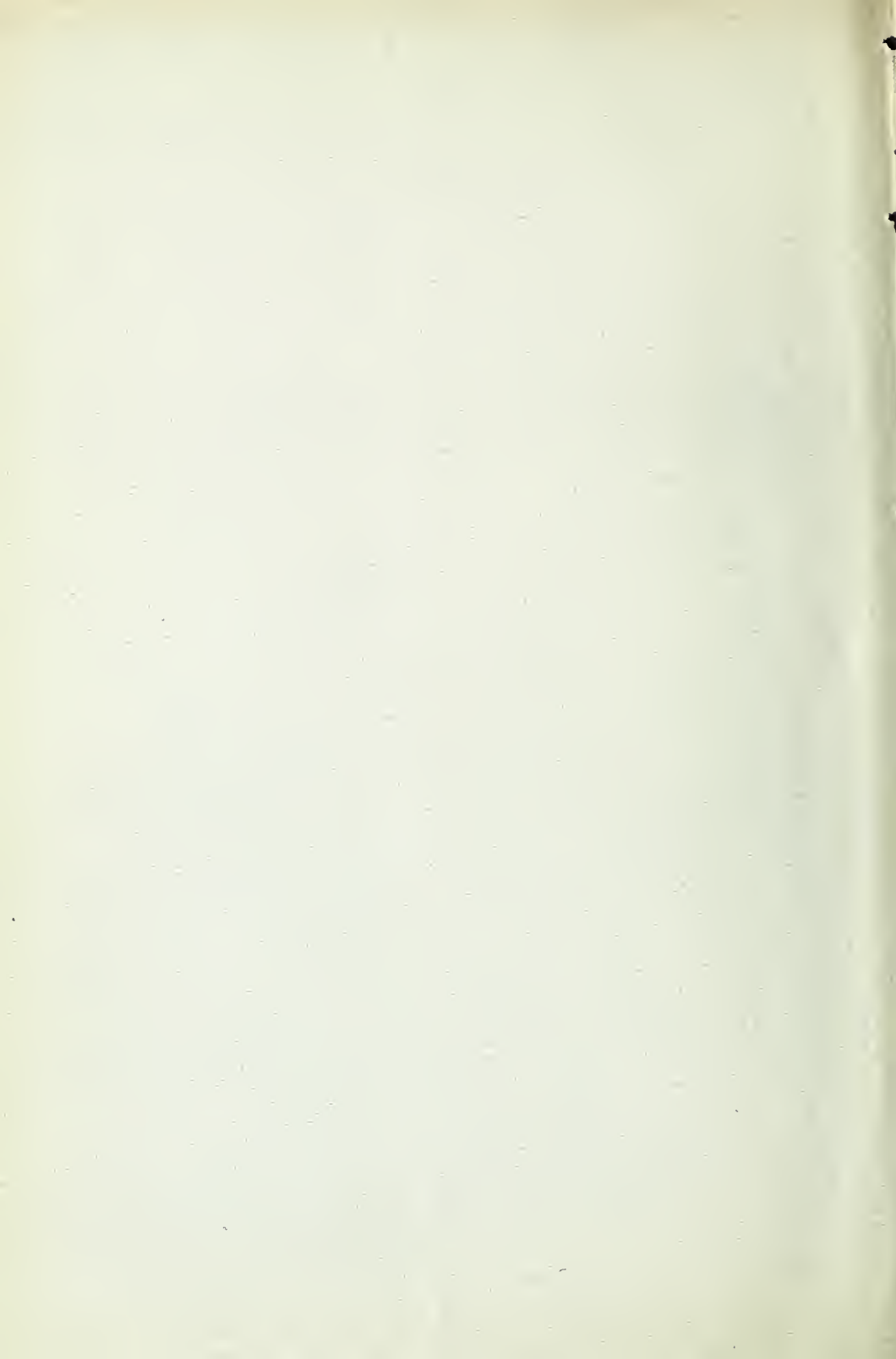






ANNUAL REPORT
OF THE
MEDICAL OFFICER OF HEALTH
FOR THE
Arnold Urban Sanitary District,
For the Year 1894.

THIS BEING THE SPECIAL FILE COPY FOR
LIBRARY B. M. A., IT IS PARTICULARLY
REQUESTED THAT IT MAY BE RETURNED
AT AS EARLY A DATE AS POSSIBLE.



ANNUAL REPORT
OF THE
MEDICAL OFFICER OF HEALTH

FOR THE
Arnold Urban Sanitary District,
For the Year 1894.

ARNOLD, MARCH 20th, 1895.
TO THE ARNOLD URBAN DISTRICT COUNCIL.

GENTLEMEN,

In presenting my Tenth Annual Health Report I will ask your attention first to the

VITAL STATISTICS.

I.—*Population.* Allowing for an average rate of increase, the population of Arnold parish at the middle of 1894 would be 8425, and this estimate is probably very near the truth.

II.—*Deaths.* 101 deaths were registered during the year. Table A shows the ages at which the deaths occurred, and also the causes of deaths classified and arranged. On the basis of the estimate of population I have given above the Death rate for the year is 11·98 per 1000 per annum. This is the lowest Annual Death rate I have yet recorded and is due speaking generally to the absence of epidemic disease and of extremes of heat and cold.

For the sake of comparison I insert here the Death rates for the last ten years.

16·4 for 1885 and 1889.

19·2 for 1886 (Measles and Diarrhoea).

17·0 for 1887 and 1890.

17.6 for 1888.
 20.0 for 1891 (Influenza).
 13.2 for 1892 and 1893.
 11.9 for 1894.

From which it is apparent that our Sanitary condition is better than that of many village communities.

SEASONAL MORTALITY.

As showing the incidence of mortality at different seasons of the year I may point out that of the 101 deaths mentioned above:—

30	occurred in the first quarter of the year.
25	“ “ second “ “ “
16	“ “ third “ “ “ and
30	“ “ fourth “ “ “

These figures are fairly typical of an ordinary non-epidemic year, in that the first and last quarters are the heavy ones, and the third is the lightest of the four.

Thirty two of the deaths occurred in infants under one year of age, and this yields us a Rate of Infant Mortality of 122 per 1000 births. This is below the average for England and Wales, which is about 140. In 1887 we had it as high as 175 and in 1885 as low as 116.

III.—*Births.* 262 births were registered during the year—133 males and 129 females.

The birth rate is 31.09 per 1000 per annum.

This rate has been falling pretty steadily for the last ten years. From 1885 to 1889 it averaged a little over 40; from 1889 to 1893 it averaged a little under 34; and last year there was a further fall. This means a lowered marriage rate—the result of bad trade.

The *Zymotic Death rate* is only 1.66 per 1000 per annum, and includes deaths from diphtheria, typhoid fever, measles, and whooping-cough, which make up one half of the rate, while deaths from diarrhoea make up the other half.

The death rate from Phthisis or Consumption is 1.06 per 1000 per annum.

As 1894 was pre-eminently a non-epidemic year, I have little to say about the next subject, viz.

ZYMOTIC DISEASES.

I.—*Smallpox*. The year opened with 5 cases of smallpox in the hospital in Surgey's Lane. The last case left the hospital towards the end of February. The necessary disinfection of the bedding, clothing, &c., was kindly done for us by the Nottingham Health Authorities. Failing this complaisance on their part we should of course have been obliged to destroy the things.

II.—*Enteric or Typhoid Fever*. Only 2 cases came under my notice during the year; both were fatal.

III.—*Diphtheria*. Only one case of death from undoubted diphtheria occurred during the year, but a good many cases of diphtheritic throat were seen in connection with Influenza.

IV.—*Epidemic Influenza* was pretty prevalent in January, and many cases were complicated with Pneumonia. It disappeared for a time about the end of February. About midsummer it re-appeared, but of a different type, often complicated with Diphtheritic throat symptoms and followed in a good many cases by Congestion or Inflammation of the Kidneys, but in no case by paralysis as far as I am aware. The cases in which kidney disease followed, occurred mixed with cases of typical Influenza, *e.g.*, in the same family, so that there could be no doubt as to their nature. A few cases kept cropping up at intervals to the end of the year.

5.—*Measles*. Mostly of a very mild type prevailed about the beginning and end of the year. Only two deaths occurred.

6.—*Whooping Cough* is rarely entirely absent and never for long. Many cases occurred during the opening and closing months of the year, but the mortality was small, only one death being recorded.

7.—*Scarlet Fever* has been practically absent.

8.—*Diarrhoea* gave rise to seven deaths, but was never epidemic.

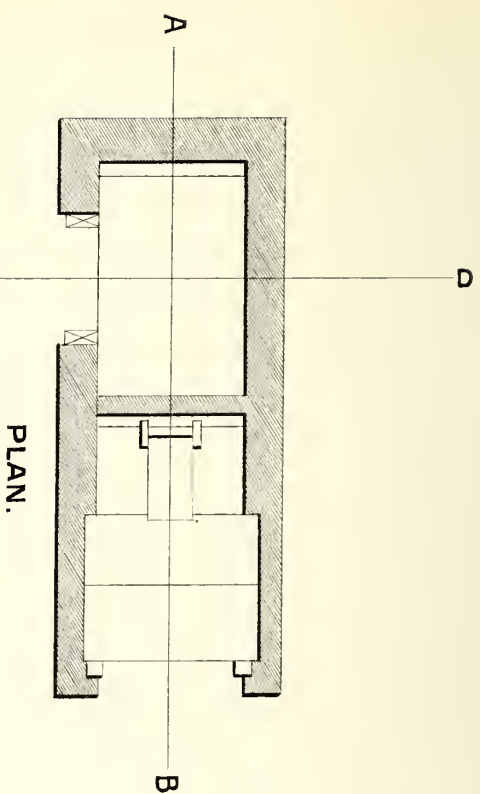
Scavenging. Complaints have been received regarding the removal of soil from ash-pits at untimely hours. The practice undoubtedly

causes serious nuisance, and occasionally, though rarely, direct injury to health. The nuisance is partly due to the fact that the ash-pits are badly constructed, sometimes open to the weather and almost always open to the sub-soil, *i.e.*, loosely floored with porous brick instead of being lined with blue brick set in cement. The enclosed drawings represent a good pattern of closet ash-pit and were embodied in my report for 1885, in which I discussed this question more fully. Another and more important factor in producing nuisance is the common practice of using the ash-pit as a receptacle for slop-water. Wet ash-pits are always a nuisance and often a danger. Good examples may be seen in the following localities. :—

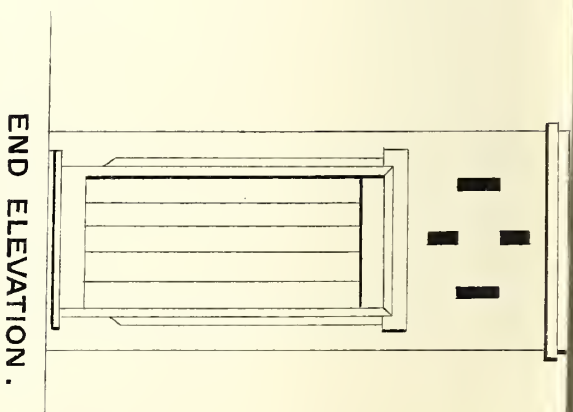
1. Blatherwick's Yard, adjoining S. Kirk's shop.
2. Hardstaff's Yard, Leivers's houses.
3. Parr's Yard, Calverton Road.
4. Flying Horse Yard.
5. Furlong Street, opposite top of West Street.
6. West Street, behind John Culley's frame shop.
7. Martin's Row, St. Alban's Road.
8. Spring Terrace, Nottingham Road, three open pits, into one of which a pig-stye is drained.
9. Cottage Row.
10. Boyd Terrace, behind the butcher's shop.
11. Portland Street, the yard adjoining Clowes's Yard. This is a paved yard, and is drained into the ash-pits.
12. Front Street, behind W. Hammond's shop. A water tap drains into this pit.

In spite of obvious defects, however, it must in fairness be said that the scavenging arrangements have been greatly improved during the last two years. Between 2,000 and 3,000 tons of soil are removed in the course of the year, and the circuit of the village is completed with tolerable regularity about every four months.

It has been proposed to drain wet ash-pits by connecting them with the sewers. That is a bad plan, inasmuch as it is mere tinkering.



PLAN.

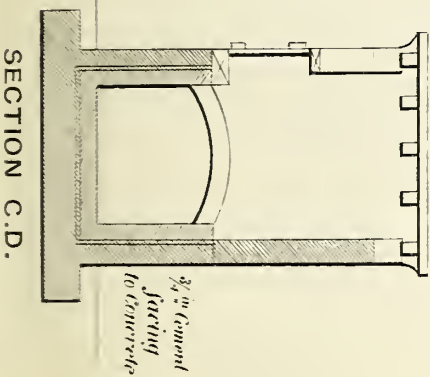
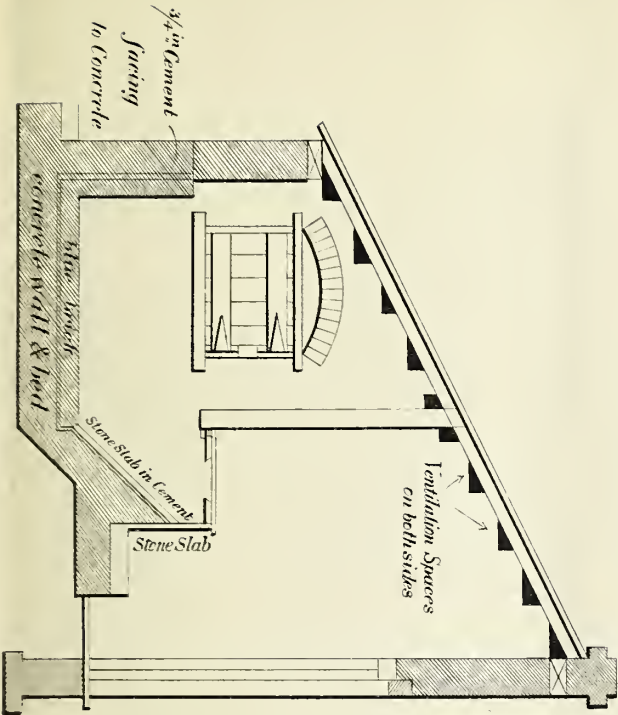


END ELEVATION.

SCALE :- $\frac{1}{4}$ INCH = 1 FOOT.

COST, IN BEST MATERIAL, £10.

PLANS OF APPROVED MIDDEN PRIVY.



ing, and assumes, practically, that slop water ought to find its way to the sewers *through the ash-pits*. Besides which such drains-pipes get quickly silted up, as happened a year or two ago at Cottage Row.

The stagnant ditch in front of Cottage Row is still a nuisance though considerably improved. It will continue to be a nuisance till it is converted into a culvert, or otherwise amended by the laying of suitable pipes.

I am, Gentlemen,

Your obedient servant,

WILLIAM LAMB, M.D.,

Medical Officer of Health.

(A)

TABLE OF DEATHS during the Year 1891, in the Arnold Urban Sanitary District of Notts.; classified according to Diseases, Ages, and Localities.

NAMES OF LOCALITIES adopted for the purpose of these Statistics: Public Institutions being shown as separate localities.	MORTALITY FROM ALL CAUSES, AT REMAINING AGES.							MORTALITY FROM SPECIFIED CAUSES, DISTINGUISHING DEATHS OF CHILDREN UNDER FIVE YEARS OF AGE.																						
	At all Ages.	Under 1 year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 60.	60 and upwards.	1 Smallpox.	2 Scarlatina.	3 Diphtheria.	4 Membranous Group.	5 Typhus.	6 Enteric or Typhoid.	7 Influenza.	8 Relapsing.	9 Puerperal.	10 Cholera.	11 Erysipelas.	12 Measles.	13 Whooping Cough.	14 Diarrhoea and Dysentery.	15 Rheumatic Fever.	16 Ague.	17 Phthisis.	18 Bronchitis, Pneumonia, and Pleurisy.	19 Heart Disease.	Injuries.	All Other Diseases.	Total	
Arnold ...	101	32	15	2	2	25	25	Under 5 5 upwds.	0	0	1	0	0	0	0	0	0	0	0	1	4	0	0	2	17	0	2	16	46	
									0	0	0	0	2	0	0	3	0	0	0	0	0	3	1	0	7	4	11	2	22	55

(B) Table of Population, Births, and of new cases of Infectious Sickness, coming to the knowledge of the Medical Officer of Health, during the Year 1894, in the Arnold Urban Sanitary District of Notts.; classified according to Diseases, Ages, and Localities.

NAMES OF LOCALITIES used for the purpose of these Statistics: Public Institutions being shown as separate localities.	POPULATION AT ALL AGES.		Registered Births.	NEW CASES OF SICKNESS IN EACH LOCALITY COMING TO THE KNOWLEDGE OF THE MEDICAL OFFICER OF HEALTH.														
	Census 1891.	Estimated to middle of 1894.		Agood under 5 or over 5.		Smallpox.	Scarlatina.	Diphtheria.	Membranous Group.	Fever.					Typhoid.	Cholera.	Erysipelas.	Influenza.
				5	4					3	2	1	Continued.	Relapsing.				
Arnold ...	7769	8425	262	Under 5 5 upwds.	0 5	2 0	1 0	0 0	0 0	0 0	0 2	0 0	0 4	0 0	0 6	0 100		





